

CERTIFICATE OF CALIBRATION

Issued by
Roxspur Measurement & Control Limited



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Authorised Signatory

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Date of Issue: 16 August 2022

Certificate Number 217729

Customer: SIGNATROL LIMITED
UNIT E2
GREEN LANE BUSINESS PARK
GLOUCESTERSHIRE
GL20 8SJ

Date Received 09 August 2022
RM&C Order Ref. 1603
Customer Order No. 46721
Calibration Date 11 August 2022

Equipment Information

Description	LEYRO LDT-2000 PRECISION THERMOMETER & PT100 PROBE	Serial Number	1031400221 & 401708/3
Manufacturer	LEYRO	Customer Inventory No.	CE1219 & CE1215
Model Number	LDT-2000 & 935-14-116	RM&C I.D. No.	RMC0052858
Calibrated Range	70 °C to 300 °C		
Scale / Resolution	0.001 °C		
Calibration Points	-70 °C, 0 °C, 30 °C, 150 °C & 300 °C		

Conditions

Lab Temperature	21.0 °C ± 2 °C	Department	TEMP - BATH
Probe Type	Pt100	Engineer	MARIA TOTH
Probe Length	350 mm	Last Certificate Number	217729
Probe Diameter	6 mm		
Min. Immersion Depth	300 mm		

Procedure : RM&C 023 DTI & RTD

RM&C 023: Digital Thermometer & RTD Probe – Issue 7 (Feb-2022)

The thermometer under test was allowed to equilibrate within a controlled, stable environment, the temperature of which was measured using traceable reference Platinum Resistance Thermometers. The following results indicate the measured test thermometer temperature against the measured temperature at the time of calibration. The measurement uncertainty was calculated in accordance with M3003 (Edition 4 – October 2019) and as such considers such factors as the calibration & drift of the reference standards, stability, repeatability, and resolution of reference instruments and that of the unit under test.

The results are valid at the time of calibration only. The temperature scale used was ITS-90 Calibration has been carried out using Laboratory procedures (LAB-PROC-023) in accordance with BS EN ISO 17025:2017. The results are valid at the time of calibration only and are "As Found" (i.e. No Adjustments Made).

Notes :

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k = 2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements. This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. The certificate may not be reproduced other than in full, except with the prior written approval of the issuing Laboratory.

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Calibration Results

Serial no.: 1031400221 & 401708/3 in Ch1

Reference Temperature °C	Thermometer Reading °C	Measured Error °C	Measurement Uncertainty °C
-0.008	-0.006	0.002	0.060
-70.280	-70.267	0.013	0.060
-0.009	-0.010	-0.001	0.060
30.052	30.056	0.004	0.060
150.100	150.091	-0.009	0.060
299.831	299.861	0.030	0.060
-0.008	-0.001	0.007	0.060

- The certificate of calibration only applies to the instrument(s) listed on page one of the certificate -
- End of Certificate -

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k = 2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

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